Bay Delta Conservation Plan Steering Committee November 21, 2008

Handout #6

1	Working Draft		
2	Annotated BDCP HCP/NCCP Document Outline		
3 4 5 6 7 8 9	Note to Reviewers: This working draft annotated outline of the BDCP HCP/NCCP document is intended to provide the Steering Committee with an understanding of the content of the document and the types of information that will need to be developed to complete the document. It is anticipated that this outline will change as we proceed through the development of the BDCP as each component of each chapter is more ful defined and developed.		
10	Cover		
11	Cover Page		
12	Verso Page		
13	Table of Contents		
14	Executive Summary		
15	Chapter 1. Introduction		
16	1.1 Background		
17	This section will describe the genesis of the BDCP.		
18	1.2 BDCP Overall Goals and Objectives		
19 20	This section will describe the Planning Agreement planning and conservation goals and objectives.		
21	1.3 Regulatory Context		
22	1.3.1 Need for the BDCP HCP/NCCP		
23 24	This section will describe the applicable federal and state laws and regulations with which the HCP/BDCP is intended to comply and will list the Permit Applicants.		
25	1.3.2 Relationship with Existing Biological Opinions		
26 27	This section will describe the relationship of the BDCP to OCAP and any other applicable Biological Opinions or court rulings.		
28	1.3.3 Relationship between the BDCP HCP/NCCP and		
29	Other Federal and State Laws and Regulations		
30 31	This section will describe other federal and state laws and regulations with which the BDCP HCP/NCCP implementation may need to comply.		
32	1.4 Scope of the BDCP HCP/NCCP		

1.4.1 Geographic Scope 1 2 This section will describe the geographic scope of the BDCP HCP/NCCP, defined as the planning 3 1.4.2 Covered Natural Communities 4 5 This section will identify and describe the rationale for the natural communities proposed for coverage under the BDCP NCCP/HCP. 6 1.4.3 Covered Species 7 8 This section will describe the covered species selection process and identify the species proposed 9 for coverage under the BDCP HCP/NCCP. 1.4.4 Covered Activities 10 11 This section will briefly describe the types of activities to be covered under the BDCP 12 HCP/NCCP and direct the reader to Chapter 4, Covered Activities, for detailed descriptions of the 13 activities. Overview of the BDCP HCP/NCCP Process 1.5 14 1.5.1 BDCP Organization and Structure 15 16 This section will describe the Steering Committee members and the Steering Committee's role in 17 developing the BDCP HCP/NCCP. This section would also describe participation by the 18 Fisheries Agencies as ex-officio members and possibly the Steering Committee's coordination 19 with other relevant programs (e.g., Delta Vision, CALFED). 1.5.2 Coordination with Agencies, Stakeholders, and 20 21 **Public Outreach** 22 This section will discuss the role of state and federal agencies, stakeholders, and the public in the 23 development of the BDCP, including agency coordination, stakeholder participation, and public 24 involvement. 1.5.3 Integration of Science 25 26 This section will describe the independent science process that was used to inform the 27 development of the BDCP and discuss role of the process in meeting the requirements of the 28 NCCPA and following agency guidance relating to the ESA. This section will briefly describe 29 other sources of independent science input that were solicited by the Steering Committee. Organization of the BDCP HCP/NCCP 1.6 30 This section will provide a brief overview the contents of the HCP/NCCP document. 31 **Existing Ecological Conditions** Chapter 2. 32 Introduction 2.1 33

Handout #6

Bay Delta Conservation Plan

Steering Committee November 21, 2008

Bay Delta Conservation Plan Steering Committee November 21, 2008	Handout #6	
	d in this Chapter will help guide the development er 3, Conservation Strategy, and provide the basi	
2.2 Historical Conditions	5	
This section will provide a brief description of r conditions present in the planning area.	relevant historical physical and biological	
2.3 Existing Ecological C	Conditions	
2.3.1 Data Sources an	d Methods	
This section will describe data collected for the describe sources and content of hydrologic data geology, and soils), and land cover data used. See provided in an Appendix.	•	
2.3.2 Ecosystem Proc	esses	
Delta, including physical, geomorphic, chemica	s, hydrodynamics, sediment movement, chemical	
2.3.3 Physical Conditi	ons	
This section will describe the geomorphic, soil, physical conditions present in the Delta that are		
2.3.4 Covered Natural	Communities	
have been preliminarily identified: tidal perenn	ommunities. Three covered natural communities and aquatic, tidal freshwater emergent, and valley ered by the Steering Committee depending on the The following types of information will be	
 Physical conditions that support the converged very least of the converged ve	th the community; logical functions of the community; community;	
2.3.5 Other Biological	Communities	
This section will briefly describe the attributes of	of other biological communities present in the P (e.g., lacustrine, grassland, agricultural land).	

2.3.6 Covered Species

Bay Delta Conse Steering Commit November 21, 20	ttee	an	Handout #6
scientific infor	mation.		ed species, using the most current and relevant a discussion of important species stressors, tat.
2.4 This section w		liversity ss the status of biodiversit	y within the planning area.
Chapter	3.	Conservation	Strategy
3.1 This section w		duction uce and provide an overvi	iew of the Chapter contents.
covered natura	ill descri ll commu		d objectives related to the Delta ecosystem, es. This section will also describe the process
This section w	tion N ill descri	leasures and The be the overall approach to	ation Overview of Key ir Integration the BDCP conservation strategy and how the a comprehensive conservation strategy.
	3.3.1	Overview of Strat	egy
	3.3.2	North Delta Cons	ervation Measures
Meas	3.3.3 sures	West Delta and S	uisun Marsh Conservation
	3.3.4	South Delta Cons	ervation Measures
	3.3.5	East Delta Conse	rvation Measures
	3.3.6	Delta-Wide Conse	ervation Measures
3.4	Con	servation Measur	es
	3.4.1	Water Operations 3.4.1.1 Introduction 3.4.1.2 Conservation M	Conservation Measures Teasures
	3.4.2	Physical Habitat I Measures	Restoration Conservation

3.4.2.1 Introduction

	Bay Delta Conservation Plan Steering Committee November 21, 2008	Handout #6
1	Attributes and	
2 3	Preserve Design Site Selection	n
3 4	Preserve Mana	gamant
5	3.4.2.2 Conservation	
6		abitat Restoration Conservation Measures
7		ertidal Marsh Habitat Restoration
8	Conservation N	
9	Brackish Intert	tidal Marsh Habitat Restoration Conservation
10	Measures	
11	_	n Habitat Restoration Conservation
12 13	Measures Riparian Habit	at Restoration Conservation Measures
	-	
14	3.4.3 Other Stressors C	Conservation Measures
15	3.4.3.1 Introduction	
16	3.4.3.2 Conservation N	Teasures
17	3.4.4 Terrestrial and W	etlands Species Conservation
18	Measures	
19	This section will describe for each terrestrial	and wetlands covered species conservation
20	and mitigation measures in addition to those	
21	restoration, and other stressors conservation	· •
22	3.5 Monitoring Plan	
23 24	This section will describe the BDCP commitment provide the information necessary to adaptively in	
25	3.6 Adaptive Managemen	t Program
26 27	This section will describe the components of the its purpose and scope.	BDCP adaptive management program, including
28	3.7 Summary of the Appr	oach to Minimization and
29	Mitigation of Effects	
30	This section will discuss the approach under the	RDCP to ensure that the effects of covered
31	activities are minimized and mitigated to the max	
32	requirements of section 10 of the ESA and Natur	•
33	3.8 Summary of Expected	d Outcomes for Covered Species
34	and Natural Commun	•
35	This section will provide a summary of the expec	eted outcomes for covered natural community
36	and covered species after the full implementation	
37	activities. The section will address each species	
38		ies are expected to have the most affects on them
39	and what the anticipated ecological outcome is a	nticipated for each.

Bay Delta Conservation Plan Handout #6 **Steering Committee** November 21, 2008 Chapter 4. **Description of Covered Activities** Introduction 4.1 This section will provide context for the description of covered activities in subsequent sections. 4.2 Water Deliveries 4.2.1 State Water Project Contractors This section will describe the water deliveries requested by the SWP contractors. 4.2.2 Central Valley Project Contractors This section will describe the water deliveries requested by the CVP contractors. 4.3 **Existing Water Supply Facilities Operations and** Maintenance 4.3.1 State Water Project This section will describe operations and maintenance (O&M) in the near-term of existing SWP facilities. 4.3.2 Central Valley Project This section will describe O&M in the near-term of existing CVP facilities. **New Water Supply Facilities Operations and** Maintenance 4.4.1 Isolated Conveyance Facility This section will describe the isolated facility, associated conveyance and other appurtenant facilities water operations; O&M activities; and implementation schedule. 4.4.2 In-Delta Conveyance Improvements This section will describe improvements to the through-Delta conveyance facilities, water operations, O&M activities, and implementation schedule. 4.5 **Mirant Energy Water Use**

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Conservation Strategy Implementation

This section will describe the components of the conservation strategy that could have

This section will describe the water use by Mirant for its two power plants.

adverse affects on covered species (e.g., physical habitat restoration).

Bay Delta Conservation Plan Steering Committee November 21, 2008

33

Handout #6

1	Chapter 5. Assessment of Impacts and Level of Take
2 3	5.1 Introduction and ApproachThis section will describe the purpose and contents of this Chapter.
4 5 6	5.2 Regulatory Context and Environmental Baseline This section will describe the environmental baseline that will provide the basis from which to identify impacts on covered natural communities and covered species.
7 8 9 10 11	5.3 Impact Assessment Methods Each subsection of this section will describe the methods used to conduct the impact assessment, including impact mechanisms, assessment tools, and key assumptions used in the assessment. This section will address groupings of covered activities that require differing assessment methods.
12	5.3.1 Infrastructure Construction
13	5.3.2 Infrastructure Operations and Maintenance
14	5.3.3 Water Operations and Conveyance
15	5.3.4 Conservation Strategy Implementation
16 17 18 19 20 21	5.4 Impacts on Covered Natural Communities This section will describe impacts, both beneficial and adverse, of the covered activities on each of the covered natural communities, including the extent of each community that would removed and impacts on ecosystem functions. The assessment may include a separate analysis for nearterm and long-term implementation activities. The following subsections would be repeated for each covered natural community.
22	5.4.1 Tidal Perennial Aquatic [example format]
23	5.4.1.1 Infrastructure Construction
24	5.4.1.2 Infrastructure Operations and Maintenance
25	5.4.1.3 Water Operations and Conveyance
26	5.4.1.4 Conservation Strategy Implementation
27	5.4.1.5 Expected Outcome with Covered Activities and
28 29	Conservation Measures This section will describe overall outcome for the given covered natural
30	community with implementation of covered activities and the
31 32	conservation measures. This outcome will be described in relation to goals and objectives for the given covered natural community.
33	5.5 Impacts on Covered Species

Bay Delta Conservation Plan Steering Committee November 21, 2008	Handout #6
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This section will describe impacts, both beneficial and adverse, of the covered activities on each of the covered species and will describe the estimated level of take. The assessment may include a separate analysis for near-term implementation activities and long-term implementation

activities. The following subsections would be repeated, as applicable, for each of the covered

species. For applicable covered fish species, the assessment would also assess impacts on

essential fish habitat.

5.5.1 Delta Smelt [example format] 5.5.1.1 Infrastructure Construction 5.5.1.2 Infrastructure Operations and Maintenance 5.5.1.3 Water Operations and Conveyance 5.5.1.4 Conservation Strategy Implementation 5.5.1.5 Designated Critical Habitat 5.5.1.6 Expected Outcome with Covered Activities and Conservation Measures This section will describe overall outcome for the given covered species

This section will describe overall outcome for the given covered species with implementation of covered activities and the conservation measures. This outcome will be described in relation to goals and objectives for the given covered species.

5.6 Cumulative Effects

This section will describe how cumulative impacts of covered activities and the BDCP HCP/NCCP conservation measures on covered species will be addressed. Cumulative effects are defined under ESA regulations as those effects of future state or private activities, not involving Federal activities, that are reasonably certain to occur within the action area of the Federal action subject to consultation (50 C.F.R. §402.02). This definition differs from the broader definition used under NEPA and other environmental laws. Cumulative impact regulations apply only to the section 7 analyses that will be conducted by USFWS and NMFS on the BDCP HCP/NCCP. The HCP/NCCP could include this analysis to support the USFWS and NMFS section 7 process. In this section, foreseeable non-Federal projects expected to occur in the planning area would be identified and their probable impacts on covered species assessed. Examples of non-Federal activities that could be included in the assessment of cumulative impacts include levee maintenance, new developments, farming practices, recreational uses, highway maintenance, and other non-federal activities that are not covered under the BDCP Regional HCP/NCCP.

5.7 Indirect Effects Outside of the Planning Area

ESA regulations define "indirect effects" as effects that are caused by a proposed action and are later in time, but still are reasonably certain to occur. The HCP/NCCP could include this analysis to support the USFWS and NMFS section 7 process. This section will address indirect effects, if any, on listed species outside of the planning area that are the reasonably certain to be caused by the covered activities and conservation measures.

Chapter 6. Plan Implementation

6.1 Implementation Schedule

This section will present the schedule for implementing all elements of the BDCP.

6.2 **Compliance Monitoring and Reporting** 1 2 This section will describe monitoring that will be undertaken in compliance with permit 3 conditions (e.g., construction monitoring to ensure implementation), reporting procedures, and monitoring report contents. 4 5 6.3 Regulatory Assurances and Changed Circumstances and Unforeseen Circumstances 6 7 This section will describe the regulatory assurances requested by the Permit Applicants from the 8 USFWS, NMFS, and DFG. This section would also describe changed circumstances and the 9 remedial measures that would be implemented to address them should they occur. 10 Changed circumstances are defined as "changes in circumstances affecting a species or 11 geographic area covered by a conservation plan that can reasonably be anticipated by plan 12 developers and the USFWS and that can be planned for..." (50 C.F.R. §17.3). 13 14 This section will describe the approach for addressing unforeseen circumstances. Unforeseen 15 circumstances are defined as "circumstances affecting a species or geographic area covered by a 16 conservation plan that could not reasonably be anticipated by plan developers and the Services at 17 the time of the conservation plan's negotiation and development, and that result in a substantial 18 and adverse change in the status of the covered species." (50 C.F.R. §17.3) Permit Duration, Amendment, Renewal, and 19 6.4 20 **Enforcement** 21 This section will identify and describe the rationale for the requested duration of ESA and CESA 22 permits and summarize processes described in the draft Implementing Agreement for amending 23 the plan and for renewing and enforcing permits. Implementation Structure Chapter 7. 24 This chapter will describe the BDCP implementing entity, structure, and decision making 25 26 process. Implementation Costs and Funding Chapter 8. 27 Sources 28 29 8.1 Cost to Implement the BDCP 30 This section will describe cost estimates for each of the BDCP implementation cost categories 31 (e.g., program administration, land acquisition, habitat restoration, remedial measures). The 32 temporal distribution of costs over the term of the BDCP will be estimated. 8.2 **Funding Sources and Assurances** 33 34 This section will identify BDCP funding sources and the assurances that sufficient funding will 35 be available for BDCP implementation. Chapter 9. **Alternatives Considered and Rejected** 36

Handout #6

Bay Delta Conservation Plan

Steering Committee November 21, 2008

Bay Delta Conservation Plan Steering Committee November 21, 2008	andout #6
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- 1 This Chapter will describe the alternatives that were considered and the reasons why they were
- 2 not included in the proposed plan.

3 Chapter 10. Independent Science Advisory Process

- 4 This Chapter will describe BDCP coordination with the BDCP Independent Science Advisors and
- 5 other science bodies (e.g., CALFED Independent Science Board) that provided input during
- 6 BDCP development. The purpose of this section is to demonstrate compliance with NCCPA and
- 7 guidance provided in the USFWS five-point policy.

8 Chapter 11. List of Preparers

- 9 This section will identify the preparers of the document. It would include a list of the Steering
- 10 Committee members, the BDCP consultant team, and others that contributed to development of
- 11 the BDCP.

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11.1 Steering Committee

- 13 This section would list the name, title, and organization of individuals affiliated with the
- organizations represented on the Steering Committee or participating entities.

11.2. Technical Consultants

- 16 This section would list the name, title, and organization of individuals affiliated with the
- 17 Technical Consultant Team.

18 11.3. Other Contributors

- 19 This section would list the name, title, and organization of individuals affiliated with other
- 20 contributors to the BDCP development.

21 Chapter 12. References

22 **12.1 Printed References**

12.2 Personal Communications

24 Appendices

- 25 The following are potential appendices to the BDCP HCP/NCCP document.
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- Covered Species Accounts
- SWP and CVP Contracts Covered by the Plan
- Hydrologic/Hydrodynamic Analyses
- List of Species Mentioned in the BDCP HCP/NCCP
- Methods for Delineating Natural Communities and Constituent Habitat Types
- Covered Natural Communities x Species Matrix
- Acronyms and Abbreviations used in the BDCP HCP/NCCP
- Glossary of Terms used in the BDCP HCP/NCCP

35